

**TITLE II
CHAPTER 6
ELECTRICAL CODE**

SECTION 1 ADOPTION OF THE ELECTRICAL CODE

- II-6-1.01 The 2001 Edition of the California Electrical Code, California Building Standards Code, known as the California Code of Regulations, Title 24, incorporating the National Electrical Code, 1999 Edition, published by the National Fire Protection Association with the amendments set forth in Section II-6-2.00 is hereby adopted. There is one copy of said code on file in the office of the Chief Building Official for use and examination by the public.

SECTION 2 AMENDMENTS TO THE 2001 CALIFORNIA ELECTRICAL CODE

- II-6-2.01 The California Electrical Code, 2001 Edition is amended or changed in the following respects:

- II-6-2.02 Section 110.26 (c) of the California Electrical Code, 2001 Edition, is amended to read as follows:

110.26 (c) **Access and Entrance to Working Space.** For equipment rated 1200 amperes or more and over six (6) feet (1.83 m) wide that contains overcurrent devices, switching devices, or control devices, there shall be one entrance not less than 24 inches (610 mm) wide and 6 1/2 feet (1.98 m) high at each end of the working space. Where the entrance has a personnel door(s), the door(s) shall open in the direction of egress and be equipped with panic bars, pressure plates or other devices that are normally latched but open under simple pressure.

Exceptions 1 and 2 are unchanged.

- II-6-2.03 Section 210.12 (b) of the California Electrical Code, 2001 Edition, is amended to read as follows:

210.12 (b) **Dwelling Unit Bedrooms.** All branch circuits that supply 125-volt, single-phase, 15 and 20 ampere convenience outlets installed in dwelling unit bedrooms shall be protected by an arc-fault circuit interrupter listed to provide protection of the entire branch circuit.

- II-6-2.04 Section 230-2 (f) of the California Electrical Code, 2001 Edition, is added to read as follows:

230-2 (f) **Underground Service.** All new electrical services shall be underground and installed per Section 230-30, Underground Service-Lateral Conductors.

II-6-2.05 Sub-section 230-70 (a) of the California Electrical Code, 2001 Edition, is amended to read as follows:

230-70 (a) **Location.** The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure or inside nearest the point of entrance of the service conductors.

Service disconnecting means shall not be installed in bathrooms.

The building main service disconnect and/or disconnects shall be installed on the first floor level of the building.

II-6-2.06 Section 250-70 (a) of the California Electrical Code, 2001 Edition, is added to read as follows:

250-70 (a) **Grounding System in New Buildings.** Grounding electrode systems in all new buildings shall be an electrode encased by at least two inches (50.8mm) of concrete located within and near the bottom of a concrete foundation or footing that is in direct contact with earth. The electrode shall consist of at least 20 feet (6.1m) of one or more steel reinforcing bars or rods, of not less than 1/2 inch (12mm) diameter. The connection side of this concrete-encased electrode shall be located remotely away from the main electrical service equipment.

II-6-2.07 Section 300-1 of the California Electrical Code, 2001 Edition, is amended by adding Subsections (c) and (d) to read as follows:

300-1 (c). **Raceway Requirements in Electrical Room.** All unprotected service raceway taps above ground level shall be rigid metal conduit within the electrical room.

300-1 (d). **Underground Raceways.** All underground raceways shall be provided with an equipment grounding conductor unless indicated elsewhere in this code.

II-6-2.08 Section 336-4 of the California Electrical Code, 2001 Edition, is amended to read as follows:

336-4 **Uses Permitted.** Type NM, Type NMC and Type NMS cables shall be permitted to be used in the following:

(1) One and two-family dwellings

(2) Multi-family dwellings permitted to be of Types III, IV and V construction except as prohibited in Section 336-5

(3) Other structures permitted to be of Types III, IV and V construction except as prohibited in Section 336-5. Cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15- minute finish rating as identified in listings of fire-rated assemblies.

(4) Cable trays, where the cables are identified for such use

Subsections 336-4 (a), 336-4 (b) and 336-4 (c) are unchanged.

II-6-2.09 Section 625-29 (d) (1) of the California Electrical Code is added to read as follows:

625.29 (d) (1) **Ventilation Required, Table Values.** For supply voltages and currents specified in Table 625-29 (D) (1) or 625-29 (D) (2). The minimum ventilation requirements shall be as specified in Table 625-29 (D) (1) or Table 625 (D) (2) for each of the total number of electric vehicles that can be charged at one time.

II-6-2.10 Article 690 of the California Electrical Code is added as follows:

690 **Solar Photovoltaic Systems.** (This entire article from the National Electrical Code, published by the National Fire Protection Association, 2002 Edition, is added by reference).

II-6-2.11 Article 692 of the California Electrical Code is added as follows:

692 **Fuel Cell Systems.** (This entire article from the National Electrical Code, published by the National Fire Protection Association, 2002 Edition, is added by reference).

II-6-2.12 Article 695 of the California Electrical Code is added as follows.

695 **Fire Pumps.** (This entire article from the National Electrical Code, published by the National Fire Protection Association, 2002 Edition, is added by reference).

SECTION 3 REPEAL OF CONFLICTING ORDINANCES

II-6-3.01 Upon adoption of each new California Electrical Code, the previously adopted California Electrical Code is superseded in its entirety.

SECTION 4 SEVERABILITY

II-6-4.01 The City Council declares that, should any provision, section, paragraph, sentence, or word of this amendment be rendered or declared invalid by a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of said chapter hereby adopted shall remain in full force and effect.

SECTION 5 EFFECTIVE DATE

II-6-5.01 This ordinance shall become effective on November 1, 2002